| **SUBJECT: 5th Grade Computer** | **GRADE: 5** |
|---|---|
| **Unit Title:** Vector Drawings | **Time Frame:** 5 Days |
| **UNIT OVERVIEW** | |
| Within this unit, students will learn how to develop digital illustration skills by independently creating complex graphics using basic digital tools and universal design concepts | |
| **LRG SKILLS AND DISPOSITIONS** | **PA STANDARDS** |
| Digital Literacy & Tech Proficiency (K4DLT1B1)<br>Creativity and Innovation: Shapegrams (S3B) | **STEELS:**<br>**3.5.3-5.Q**<br>**3.5.3-5.S**<br>**3.5.3-5.U**<br><br>**BCIT:**<br>**15.4.5.G** |
| **COMPETENCIES** | **LEARNING TARGETS** |
| I can test, analyze, and iterate designs using data and feedback | I can test, analyze, and iterate designs using data and feedback. |

| **SUBJECT: 5th Grade Computer** | **GRADE: 5** |
|---|---|
| **Unit Title:** Desktop Publishing for Personal/Academic Use | **Time Frame:** 10 days |
| UNIT OVERVIEW | |
| Within this unit students will learn how to use desktop publishing techniques for personal and academic use. By the end of this unit students will have completed projects in Canva. | |
| **LRG SKILLS AND DISPOSITIONS** | **PA STANDARDS** |
| Digital Literacy & Tech Proficiency (K4DLT1B1)<br><br>Creativity and Innovation: Design a Poster (S3B) | **CSTA:**<br>**E5-CAS-16**<br>**E5-CAS-17**<br>**E5-CAS-18**<br>**E5-CAS-19**<br><br>**STEELS:**<br>**3.5.3-5.J**<br>**3.5.3-5.U**<br>**3.5.3-5.V**<br><br>**BCIT:**<br>**15.4.5.A**<br>**15.4.5.G** |
| **COMPETENCIES** | **LEARNING TARGETS** |
| I can explain how diverse voices shape technology, how people choose which tools to use, and how experts work together to solve problems fairly. | I can analyze how including different people and communities help create better technology.<br><br>I can decide when it's appropriate to use computing technology.<br><br>I can describe how people work together using computer tools to solve problems. |

| **SUBJECT: 5th Grade Computer** | **GRADE: 5** |
|---|---|
| **Unit Title:** MicroBit Programming | **Time Frame:** 5 Days |
| **UNIT OVERVIEW** | |
| Within this unit, students will learn how to use MicroBit controllers to access inputs and outputs. | |
| **LRG SKILLS AND DISPOSITIONS** | **PA STANDARDS** |
| Digital Literacy & Tech Proficiency (K4DLT1B1)<br>Critical Thinking and Problem Solving; Pedometer (S4B) | **E5-ALG-01**<br>**E5-PRO-04**<br>**E5-PRO-05**<br>**E5-PRO-07**<br>**E5-PRO-08**<br>**E5-DAA-09**<br>**E5-DAA-10**<br>**E5-DAA-11**<br>**E5-SAS-12**<br>**E5-SAS-15** |
| **COMPETENCIES** | **LEARNING TARGETS** |
| I can use digital tools to organize data, find patterns in its differences, and explain the benefits and risks of how that data is used. | I can use digital tools to collect and organize data.<br>I can find patterns and differences in my data.<br>I can explain the benefits and risks of data-driven technology. |

| **SUBJECT: 5th Grade Computer** | **GRADE: 5** |
|---|---|
| **Unit Title:** Drone Programming | **Time Frame:** 10 Days |
| **UNIT OVERVIEW** | |
| Within this unit, students will learn how to use coding blocks to navigate a drone through an obstacle course. | |
| **LRG SKILLS AND DISPOSITIONS** | **PA STANDARDS** |
| Digital Literacy & Tech Proficiency (K4DLT1B1)<br>Collaboration and Teamwork; Drone Obstacle Course (S1B) | **E5-ALG-01**<br>**E5-PRO-04**<br>**E5-PRO-05**<br>**E5-PRO-06**<br>**E5-PRO-07**<br>**E5-PRO-08**<br>**E5-SAS-14**<br>**E5-SAS-15** |
| **COMPETENCIES** | **LEARNING TARGETS** |
| I can build and remix code with others to create working projects, using variables to manage data and clear notes to help me find and fix bugs. | I can build and remix code with others to create working projects.<br><br>I can document clear notes about my code and use them to find and fix bugs.<br><br>I can use variables to manage and organize data in my programs. |